

# CHEMICO-BIOLOGICAL INTERACTIONS

## CONTENTS

### VOLUME 85 (1992)

DNA-directed aniline mustards based on 9-aminoacridine: interaction with DNA C.J. O'Connor, W.A. Denny, J.-A. Fan and R.S.K.A. Gamage (Auckland, New Zealand)	1
Isotopically sensitive regioselectivity in the oxidative deamination of a homologous series of diamines catalyzed by diamine oxidase P.S. Callery, B. Subramanyam, Z.-M. Yuan, S. Pou, L.A. Geelhaar and K.A. Reynolds (Baltimore, MD)	15
Sphingosine induced release of K <sup>+</sup> and 5-HT in platelets should not be confused with membrane leakiness J.-H. Mäkelä and B. Isomaa (Åbo, Finland)	27
Evidence for free radical formation during horseradish peroxidase-catalyzed <i>N</i> -demethylation of crystal violet F.R. Gadelha, P.M. Hanna, R.P. Mason and R. Docampo (Urbana, IL and Research Triangle Park, NC)	35
The involvement of selenium in peroxisome proliferation caused by dietary administration of clofibrate to rats U. Olsson, P. Garberg, B. Lundgren, K. Andersson, K. Hultenby, A. Bergstrand, A.M. Eriksson, J. Högberg and J.W. Depierre (Stockholm, Solna and Huddinge, Sweden)	49
The mechanism of Hg <sup>2+</sup> toxicity in cultured human oral fibroblasts: the involvement of cellular thiols Y. Liu, I. Cotgreave, L. Atzori and R.C. Grafström (Stockholm, Sweden)	69
A comparison of the mouse versus human aryl hydrocarbon (Ah) receptor complex: effects of proteolysis X. Wang, M. Santostefano, Y. Lu and S. Safe (College Station, TX)	79
<i>Review Article</i>	
Effect of oxidative stress on receptors and signal transmission A. van der Vliet and A. Bast (Amsterdam, The Netherlands)	95
Two-dimensional nuclear magnetic resonance studies of an intercalation complex between the novel semisynthetic anthracycline 3'-deamino-3'-(2-methoxy-4-morpholinyl)-doxorubicin and the hexanucleotide duplex d(CGTAACG) C. Odefey, J. Westendorf, T. Dieckmann and H. Oschkinat (Hamburg and Heidelberg, Germany)	117
Arsenic induces and enhances rat hepatic metallothionein production in vivo A. Albores, J. Koropatnick, M.G. Cherian and A.J. Zelazowski (London, Canada)	127
Detection of tobacco smoke carcinogen-DNA adducts in cultured rat buccal mucosa cells following exposure to ethanol and total cigarette smoke condensate or chewing tobacco J.L. Autrup, C. Hansen and H. Autrup (Copenhagen, Denmark)	141
Study on the regioselectivity and mechanism of the aromatic hydroxylation of monofluoroanilines N.H.P. Cnubben, J. Vervoort, C. Veeger and I.M.C.M. Rietjens (Wageningen, The Netherlands)	151
HPLC separation of <sup>32</sup> P-postlabelled DNA adducts formed from dibenz[ <i>a,h</i> ]anthracene in skin S. Lecoq, W. Pfau, P.L. Grover and D.H. Phillips (Sutton, UK)	173

Reduction properties of nitrated naphthalenes: Relationship between electrochemical reduction potential and the enzymatic reduction by microsomes or cytosol from rat liver N. Iwata, K. Fukuhara, K. Suzuki, N. Miyata and A. Takahashi (Tokyo, Japan) .....	187
A comparative binding of platinum anti-tumour compounds to plasma proteins in the rat (in vivo) and mouse (in vitro) A. Perera, H. Jackson, H.L. Sharma, C.A. McAuliffe and B.W. Fox (Manchester, UK) .....	199
pH effects on the N-demethylation and formation of the cytochrome P-450 iron II nitrosoalkane complex for erythromycin derivatives M. Delaforge, P. Ladam, G. Bouillé, J.G. Benarous, M. Jaouen and J.P. Girault (Paris, France) .....	215
The regioselective binding of $\text{CHCl}_3$ reactive intermediates to microsomal phospholipids A. De Biasi, M. Sbraccia, J. Keizer, E. Testai and L. Vitozzi (Rome, Italy) .....	229
Oxidative damage to bovine serum albumin induced by hydroxyl radical generating systems of xanthine oxidase + $\text{EDTA} - \text{Fe}^{3+}$ and ascorbate + $\text{EDTA} - \text{Fe}^{3+}$ T. Miura, S. Muraoka and T. Ogiso (Otaru, Japan) .....	243
In vitro and in vivo toxicity of 2',3'-dideoxycytidine in mice L. Rossi, G. Brandi, G.F. Schiavano, L. Chiarantini, A. Albano and M. Magnani (Urbino, Italy) .....	255
Photochemical DNA modifications induced by 1,2-dioxetanes B. Epe, E. Müller, W. Adam and C.R. Saha-Möller (Würzburg, Germany) .....	265
Subject Index Volume 85 (1992) .....	283
Author Index Volume 85 (1992) .....	287
Contents Volume 85 (1992) .....	289